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MICROSCOPE INSPECTION SYSTEM

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Proposed Classification
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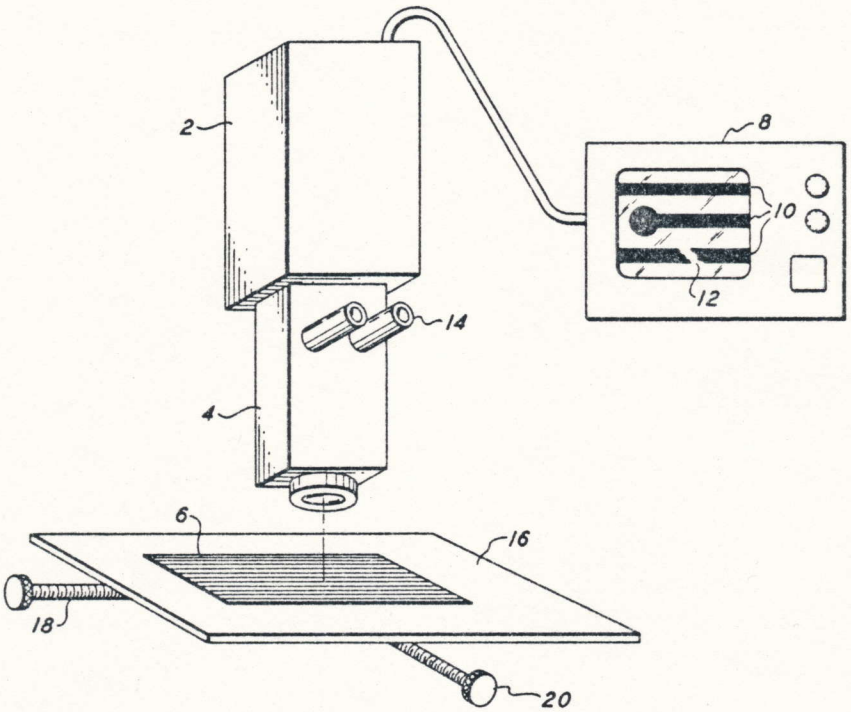

An inspection system for the orderly and accurate inspection of etched connector lines on a printed circuit board, or the inspection of any fine detail contained within a flat area. A television camera 2 is mounted onto a microscope 4 which is focused on a printed circuit board 6 or any other test article. The television camera is electrically connected to a television monitor 8 which displays the test article in greatly magnified detail. As magnified, the etched lines of the printed circuit board 10 and any defects 12 contained therein may be easily seen on the T.V. monitor. While the microscope and camera are focused on a defect, the operator may view the test article directly through an additional set of eyepieces 14 provided for this purpose. The displaying of the test article on a T.V. monitor reduces operator eyestrain while allowing the test article to be viewed in great detail. Also, the mounting of the test article on an

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MICROSCOPE INSPECTION SYSTEM (Con't)

XY motion table 16 allows for the efficient and orderly inspection of an entire printed circuit board, or other test article, in that the X drive 18 may be repeatedly driven through the entire length of the test article while the Y drive 20 is advanced one inspection width at a time.